

NEW SHEET

Title: Client-side Auto-rediscovery for Networked Devices

Inventor: Peter Parks et al.

Docket No.: 82102796

800



With a data store associated with a service requesting networked device, store a pairing data that relates the service requesting networked device and a service providing networked device
(block 802)

With a logic associated with said service requesting networked device, in response to said service requesting device send a service request to said services providing network device, determine whether the pairing data should be updated and to update the pairing data if said pairing data is not valid
(block 804)

Fig. 8

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With a data store, store an Internet protocol (IP) address and a MAC address associated with a service providing networked device that is configured to provide a service to a requesting networked device, the data store being located in the requesting networked device
(block 902)

With a first logic, in response to a service request made by said requesting networked device, produce a uni-cast SNMP GET request for the MAC address of the service providing networked device and to determine whether the IP address and MAC address stored in the data store describe a valid pairing based on a uni-cast SNMP GET RESPONSE message, the first logic being located in the requesting networked device
(block 904)

With a second logic, selectively produce a multicast SNMP GET request for the MAC address of one or more service providing networked devices related to said service request and to selectively update the data store based on one or more uni-cast SNMP GET RESPONSE messages responsive to the multicast SNMP GET request, the second logic being located in the requesting networked device
(block 906)

Fig. 9

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Store a pairing data that relates a service requesting
networked device and a service providing networked
device
(block 1002)

Perform a unicast based discovery between the service
requesting networked device and the service providing
networked device in response to a service request made
from the service requesting networked device to the
service providing networked device
(block 1004)

Selectively perform automatic multicast based discovery
to rediscover the service providing networked device
based on the unicast based discovery and selectively
updating the pairing data based on the multicast based
discovery
(block 1006)

Fig. 10

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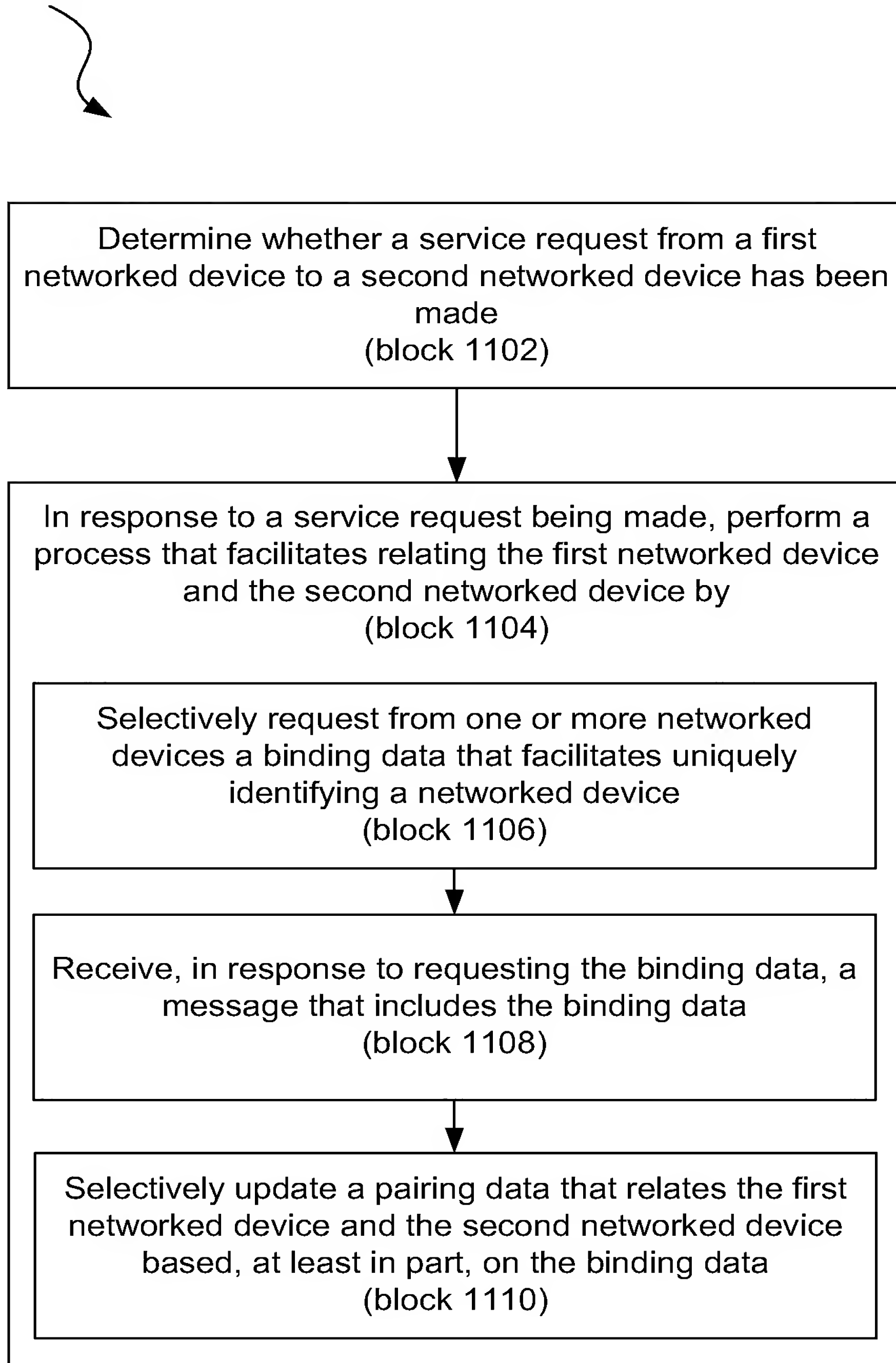


Fig. 11